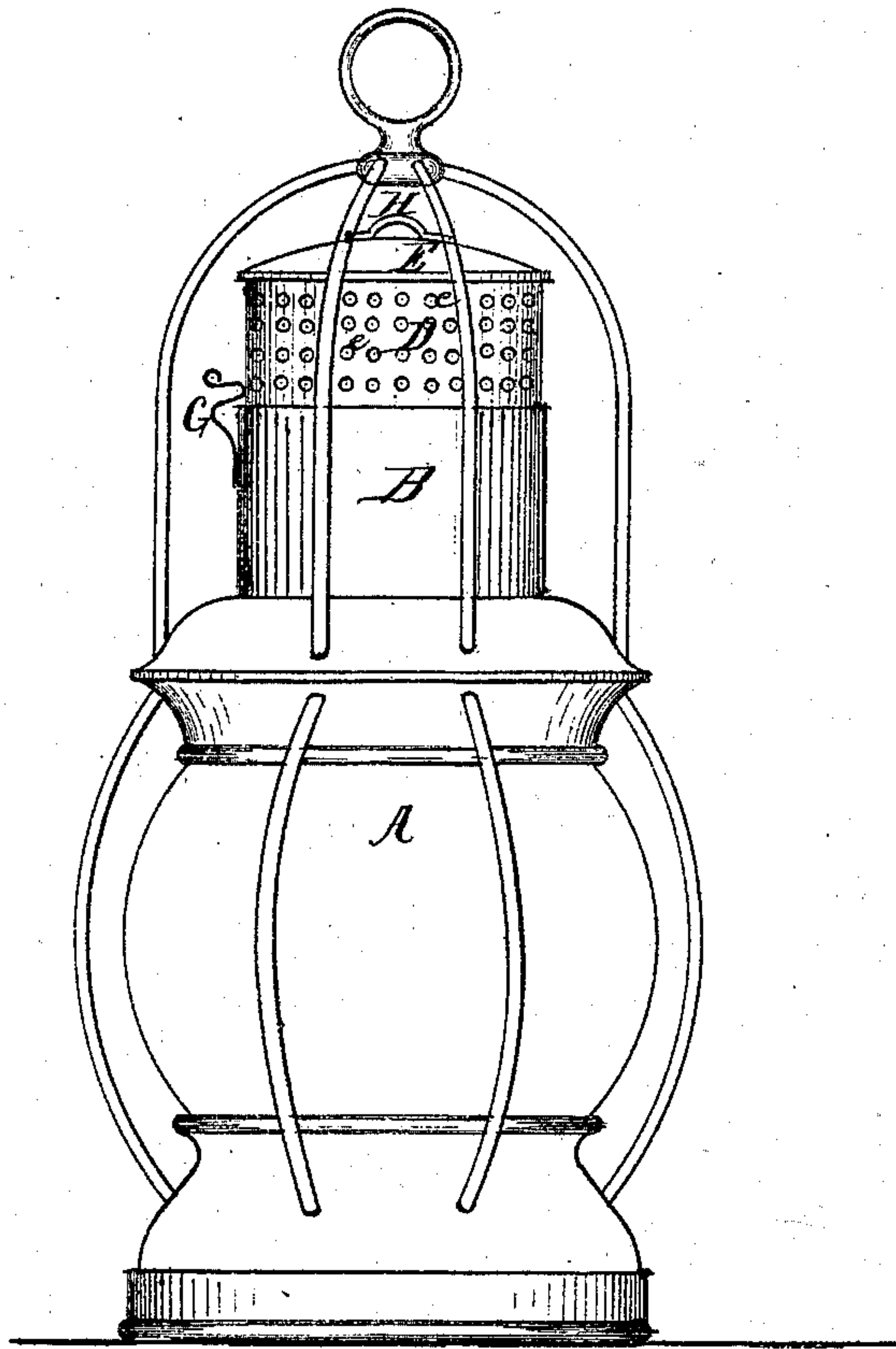


H. SAUNDERS.  
Ships' Lanterns.

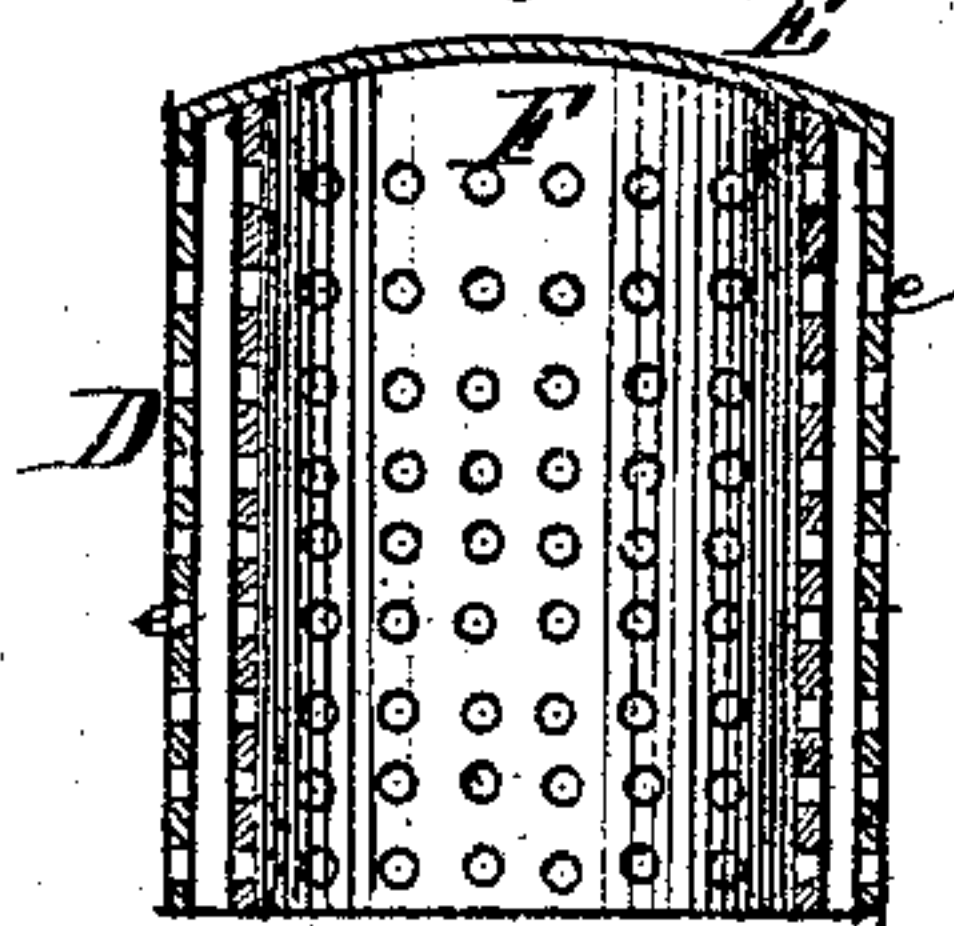
No. 138,532.

Patented May 6, 1873.

*Fig: 1.*



*Fig: 2.*



Witnesses:  
Franklin Barritt,  
Richard Gerner.

Inventor:  
Herbert Saunders  
Per: Henry Gerner  
Att.

# UNITED STATES PATENT OFFICE.

HERBERT SAUNDERS, OF SOUTH KINGSTON, RHODE ISLAND.

## IMPROVEMENT IN SHIPS' LANTERNS.

Specification forming part of Letters Patent No. **138,532**, dated May 6, 1873; application filed March 18, 1873.

*To all whom it may concern:*

Be it known that I, HERBERT SAUNDERS, of South Kingston, county of Washington, State of Rhode Island, have invented certain Improvements in Ships' Lanterns, of which the following is a specification:

I am the inventor of certain improvements in ships' lanterns, for which Letters Patent No. 135,371, bearing date January 28, 1873, were granted to me.

The object of my invention is to provide for means to prevent the flame of the lamp from becoming extinguished by a gust of wind or in a gale, and also to hold and regulate the exit for the products of combustion in a more simple and perfect manner than in the first-described patent. It consists in making the vertically-adjustable perforated cap double, and the employment of a spring instead of a pin to hold and regulate said double caps.

A strong wind or gust of wind penetrates a single perforated cap too rapidly and extinguishes the flame of the lamp too readily. A number of experiments have demonstrated that a double perforated cap entirely prevents this evil, on which the whole effectiveness of the lamp depends. The perforated cap, becoming heated by the products of combustion passing through the perforations, also heats the pin employed heretofore to adjust and regulate the said cap, and makes it almost impossible to handle. A spring, fitting into the perforations, entirely prevents this evil and makes any handling unnecessary. A knob or

handle placed on the top of the cap does not become heated, and can be handled with impunity.

In order to describe my invention more fully I refer to the accompanying drawing forming a part of this specification.

Figure I is a side view of a ship's lantern embodying my invention. Fig. II is a detached sectional view of the double cap.

A represents the lantern. B is the outer cylinder secured to the top of the lantern. D represents the outer perforated cap, fastened at the top E to the inner perforated cap F. G is a spring fastened to the outer cylinder B, pressing against the outer perforated cap D, and fitting into the holes *e e* of the said cap, thus serving to hold and adjust the double perforated cap by taking hold of the handle or knob H placed on the top E, by aid of which said caps are either depressed or elevated at pleasure.

Having thus described my invention, I desire to claim—

The inner perforated cap F, in combination with the outer perforated cap D and spring G, substantially as and for the purpose hereinbefore set forth.

This specification signed this day, the 12th of March, 1873.

HERBERT SAUNDERS.

Witnesses:

RICHARD GERNER,  
FRANKLIN BARRITT.